

# Material Safety Data Sheet

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## Product Identification

Product Name: YSI 3822 Buffer Solution, pH = 7.00  
Synonyms: None. Molecular Weight: NA  
Chemical Name: NA Chemical Family: NA  
Product CAS#: NA Formula: NA

## Ingredients

1. Potassium Phosphate Monobasic CAS# 7778-77-0  
Percent: <1 SARA: Not Listed.  
TLV: Not established. PEL: Not Established  
Hazard: Moderately toxic - May cause Irritation.
2. Sodium Hydroxide CAS# 1310-73-2.  
Percent: <1 SARA: Not listed  
TLV: 2 mg/m<sup>3</sup> PEL: 2 mg/m<sup>3</sup>
3. Yellow Food Coloring CAS# Not listed.  
Percent: <0.02 SARA: Not listed.  
TLV: Not established. PEL: Not established.  
Hazard: None Known.
4. Deionized Water CAS# 7732-18-5  
Percent: >98 SARA: Not listed.  
TLV: Not applicable PEL: Not applicable  
Hazard: None.

## Precautionary Measures

Avoid contact with eyes, skin, and clothing. Wash thoroughly after handling. Minimal contact, as with all chemicals, is a good policy to follow.

## Emergency/First Aid

In case of contact, immediately flush skin or eyes with plenty of water for at least 15 minutes. If swallowed, give two glasses of water or milk to dilute. Call a physician.

DOT Hazard Class: Not Regulated

## Physical Data

## Section One

Appearance: Clear yellow solution  
Odor: Odorless  
Solubility: Infinitely soluble in water.  
Boiling Point: 100° C (212° F)  
Melting Point: 0° C (32° F)  
Specific Gravity: 1.0

Vapor Density (Air=1): Essentially the same as water.  
Vapor Pressure (mm Hg): Essentially the same as water.  
Evaporation Rate: Essentially the same as water.

Fire and Explosion  
Information

Section Two

Fire: Not considered to be a fire hazard.  
Explosion: Not considered to be and explosion hazard  
Fire Extinguishing Media: Use any suitable means for extinguishing surrounding fire.

Reactivity Data

Section Three

Stability: Stable under ordinary conditions of use and storage  
Hazardous Decomposition Products: None known.  
Hazardous Polymerization: This substance does not polymerize.  
Incompatibilities: None known.

Leak/Spill/Disposal  
Information

Section Four

Flush to sewer with large amounts of water.  
Ensure compliance with Federal, State, and local regulations  
Reportable Quantity: 5000 lbs.

Health Hazard Information

Section Five

A. Exposure/Health Effects

Inhalation: No information found.  
Ingestion: Large doses may cause diarrhea.  
Skin Contact: Prolonged contact may cause irritation.  
Eye Contact: May cause irritation and damage.  
Chronic Exposure: Potassium phosphate, one of the ingredients, may sequester calcium and cause calcium phosphate deposits in the kidneys.  
Cancer information: No information found for any ingredient  
Aggravation of Pre-existing Conditions: No information found

B. First Aid

Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.  
Ingestion: If swallowed, give two glasses of water to dilute. Give medical attention immediately.  
Skin Exposure: Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing. Get medical attention if irritation develops or persists.  
Eye Exposure: Wash eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attentions immediately.

Occupational Control  
Measures

Section Six

Ventilation System: In general, dilution ventilation is a satisfactory health hazard control for this material. However, if conditions of use create discomfort to a worker, a local exhaust should be considered.

Personal Respirators (NIOSH Approved): For conditions of use where exposure to mist exists, a dust/mist respirator may be worn. For emergencies, a self-contained breathing apparatus may be necessary.

Skin Protection: Rubber gloves and lab coat, apron or overalls.

Eye Protection: Use chemical safety goggles and/or a full face shield where splashing is possible. Contact lenses should not be worn when working with this material.

Maintain eye-wash fountain and quick-drench facilities in work areas.

Storage and Special  
Information

Section Seven

Keep in a tightly closed container. Protect container from physical damage.

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END OF MATERIAL SAFETY DATA SHEET